Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- (Currently Amended) A sensor material comprising at least a stimulus-1. responsive high polymer gel, a bio-substance-responsive material material, and a light modulation material colored pigment.
- (Currently Amended) The sensor material according to claim 1, wherein at 2. least the bio-substance-responsive material and the light modulation material colored pigment are present inside the stimulus-responsive high polymer gel.
- (Currently Amended) The sensor material according to claim 1, wherein the 3. light modulation material colored pigment is present inside the stimulus-responsive high polymer gel while the bio-substance-responsive material is present outside the stimulusresponsive high polymer gel.
- (Original) The sensor material according to claim 1, wherein the stimulus-4. responsive high polymer gel swells or shrinks according to a concentration of the biosubstance.
- (Currently Amended) The sensor material according to claim 1, wherein a 5. concentration of the light-modulation material colored pigment included in the stimulusresponsive high polymer gel is equal to or higher than a saturated absorption concentration or a saturated scattering concentration when the stimulus-responsive high polymer gel shrinks.
- (Original) The sensor material according to claim 1, wherein a ratio of a 6. volume of the stimulus-responsive high polymer gel in swelling state to a volume of the stimulus-responsive high polymer gel in shrinking state is 5 or more.
- (Original) A sensor comprising at least the sensor material according to claim 7. 1 and an optical waveguide. BEST AVAILABLE COPY

- 8. (Original) A detection method for a bio-substance using the sensor material according to claim 1, comprising the step of detecting a change in tone on the basis of swelling or shrinking of the stimulus-responsive high polymer gel.
- 9. (Original) A detection method for a bio-substance using the sensor material according to claim 1, comprising the step of detecting a transmitting light therethrough on the basis of swelling or shrinking of the stimulus-responsive high polymer gel.